#### **PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below Priority date (day/month/year) International application No. International filing date (day/month/year) 07.10.2003 04.10.2004 PCT/B2004/003227 International Patent Classification (IPC) or both national classification and IPC C08G77/26, D06M15/267 Applicant **CLARIANT INTERNATIONAL LTD** This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☐ Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III □ Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. **Authorized Officer** Name and mailing address of the ISA:

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### 40/5/5154

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/003227

				ADDO DANA DETATO A CADO 2006	
	Вох	No.	I Basis of the opinion	WAS ZUTION OF THE COOK	
1.	With the I	n regard to the <b>language</b> , this opinion has been established on the basis of the international application in language in which it was filed, unless otherwise indicated under this item.			
		lang	s opinion has been established on the basis of a juage , which is the language of a translation der Rules 12.3 and 23.1(b)).	a translation from the original language into the following Infurnished for the purposes of international search	
2.	With	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application necessary to the claimed invention, this opinion has been established on the basis of:			
	a. ty	pe o	of material:		
	ב	) i	a sequence listing		
	C	] 1	table(s) related to the sequence listing		
b. format of material:		t of material:			
			in written format		
	. [		in computer readable form		
c. time of filing/furnishing:		me d	of filing/furnishing:		
	[		contained in the international application as file	d.	
	[		filed together with the international application	in computer readable form.	
	[		furnished subsequently to this Authority for the	purposes of search.	
3.		has	been filed or furnished, the required statemen	or copy of a sequence listing and/or table relating thereto ts that the information in the subsequent or additional or does not go beyond the application as filed, as	
4.	Additional comments:				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-7

No:

: Claims

Inventive step (IS)

Yes: Claims

1-7

No: Claims

Industrial applicability (IA)

Yes: Claims

1-7

No: Claims

2. Citations and explanations

see separate sheet

### **20/5**75154 IAP20 Rec'd PCT/PTO 0 6 APR 2006

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/003227

#### Section V:

Reasoned statement with regard to novelty, inventive step and industrial applicability Article 33 (2) to (4) PCT:

D1: EP 0 415 698 A

The present invention relates to

Amino-functional silicone waxes of formulae (I) to (IV) being reaction products of silicone oils with fatty acid diamides as defined in present claims 1-2. It further relates to a process for preparing said amino-functional silicone waxes by condensation of fatty acids with diethylenetriamine or dipropylenediamine and then reacting with silicone oils of the general formulae (V) or (VI) as defined in present claims 3-5 and further

to the use of said silicone waxes as textile softeners as defined in present claims 6 and 7.

2. The present application meets the requirements of Article 33 (2) PCT because the subject-matter of claims 1-7 is novel.

None of the documents of the prior art discloses amino-functional silicone waxes of formulae (I) to (IV), a process for preparing them or their use with the features defined in present claims 1-7.

The subject-matter of claims 1-7 is therefore novel.

3. The present application meets also the requirements of Article 33 (3) PCT because the subject-matter of claims 1-7 is inventive.

D1 is considered to represent the closest prior art since it discloses fabric softener compositions having a structure of lamellar droplets dispersed in the aqueous phase comprising a cationic fabric softening material comprising among others alkylammonium compounds derived from fatty acids and reaction products of fatty acids with a polyamine.

D1 does not disclose compounds having a silicone backbone. however.

The problem underlying the present application may be regarded as to provide further textile softeners comprising a cationic fabric softening material.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

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No indication is given in the prior art that the specific amino-functional silicone waxes of formulae (I) to (IV) being reaction products of silicone oils with fatty acid diamides as defined in the present claims can be used to solve this problem.

None of the documents of the search report discloses or suggests such a aminofunctional silicone waxes or a process for their preparation or gives an indication in that direction.

Therefore the presence of an inventive step can be acknowledged for the subjectmatter of claims 1-7 vis- à- vis the documents of the search report.

4. The present application meets the requirements of Article 33 (4) PCT because the subject-matter of claims 1-7 is also industrially applicable.